

Inclusion of Gallium Chloride and
Iodine Chloride in Graphite, by W. Rudorff,
A. Landel.

GERMAN, per, Z. fuer Anorganische und
Allgemeine Chemie, Vol CXXIII, No 5/6,
1958, pp 327-342.

CSIRO 4059

Sci - Chem
Jun 62

201.091

63-18819

Wagner, Gustav and Binder, Horst.
INVESTIGATIONS OF THE BINARY SYSTEMS
BaO-SnO₂ AND BaO-PbO₂. II. DETERMINATION OF
CRYSTAL STRUCTURE (Untersuchung der Binären
Systeme BaO-SnO₂ und BaO-PbO₂. II. Kristallstruk-
turbestimmungen). [1963] [22p] (foreign text included)
1 refs
Order from SLA \$2.60

63-18819

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1959, v. 298, p. 12-21.

DESCRIPTORS: Oxides, *Lead compounds, *Barium
compounds, *Tin compounds, *Crystal structure,
Crystal lattices, Perovskites.

Powdered diagrams of the three compounds, barium-
orthostannate (IV), Ba₂SnO₄; bariumorthoplumbate (IV),
BaPbO₃, and bariummetaplumbate (IV), Ba₂PbO₄, were
(Chemistry--Inorganic, TT, v. 10, no. 11) (over)

- I. Wagner, G.
- II. Binder, H.
- III. Title: Determination ...
- IV. Title: Kristallstruktur-
bestimmungen

Office of Technical Services

Preparation of Nitrides of Boron, Aluminum, Gallium
and Indium by the Van Arkel-de Boer Method, by
Th. Renner, 18 pp.

GERMAN, per, Z Anorg und Allg. Chem, Vol CCXCVIII,
1959, pp 22-33.

CIA/WD XI-641

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chemistry
Sep 59

MURKIN

Springfield

Tk No 40

96,512
(OVER)

USIS INTERNAL USE ONLY

Dept of INT, TN7 E57 no 786

Cation Exchange in Clay Minerals. III. The
Cation Exchange of Kaolinite, by A. Weiss, 31 pp.

GERMAN, per, Zeit fuer Anorgan und Allgemeine
Chemie, Vol CCXCIX, No 1/2, 1959, pp 92-120.

Dept of Commerce
Natl Bu of Standards

Sci - Minerals/Metals
Sep 60

124,883

Schäfer, Harald and Dohmann, Kurt-Dietrich.
CONTRIBUTIONS TO THE CHEMISTRY OF THE
ELEMENTS NIOBIUM AND TANTALUM. XXI. PRE-
PARATIVE INVESTIGATIONS WITH THE LOWER
NIOBIUM CHLORIDES. [1963] [38]p. (figs. omitted)
69 refs.

Available on loan from SLA

63-16505

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1959, v. 300, no. 1/2, p. 1-32.
Another trans. is available from SLA \$3.60 as 63-14134,
26 Oct 60, 33p.

DESCRIPTORS: Tantalum, Niobium, *Niobium com-
pounds, *Chlorides, *Phase studies, Pyrolysis,
Reduction (Chemistry), Thermochemistry, Solubility,
Chemical analysis, Chemical properties, Synthesis
(Chemistry).

(Chemistry--Inorganic, TT, v. 10, no. 3)

63-16505

I. Schäfer, H.
II. Dohmann, K.-D.
III. Title: Preparative ...

Office of Technical Services

Permeation of Hydrogen Through Pd-Coated ~~EMDEX~~
Quartz Glass, by H. Bornert, U. von Weber.

GERMAN, per, Zeitschrift fuer Anorganische und
Allgemeine Chemie, Vol 180, 1959, pp 81-83.
204990

AEC-SCL-Tr-457

Sci - Chem

226,847

Apr 63

A Method for the Quantitative Group Determination in Methyl-Silanes and Silicon-Methylene Compounds, by G. Fritz, et al.

GERMAN. ber., Z. für Anorganische u. und Allgemeine Chemie, Vol CCCII, 1959, pp 175-184.

GB/254

Sci
Dec 62

Vaporization of the Alkali-Metal Oxides, by
W. Klemm, H. J. Scharf, 35 pp.
GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol 303, 1960, pp 273-282.
P911188067
ARC UCRL Tr-10096

327,860

Sci - Materials
p. 57

Report on the Evaporation Processes in hte Case
of Alkali Metal Oxide, by W. Klemm.
GERMAN, per, Zeit fur Anorg Allg Chemie, Vol 303,
1960, pp 236-282.
*NASA TT F-11,920

Sept 68

Funk, H., Schreppel, B., and Thilo, E.
PRIMARY INTERMEDIATE PRODUCTS IN THE
HYDRATION OF BETA-DICALCIUM SILICATE AND
THE MECHANISM OF FORMATION OF LIME-RICH
TOBERMORITE-LIKE CALCIUM SILICATE HYDRATE.

Jul 61

Order from C. L. A. I. R. A. Laboratories, Church Street,
Welwyn, Herts, England CLAIRA T. 18

Trans. of Zeitschrift für Anorganische und
Allgemeine Chemie (East Germany) 1960, v. 304,
no. 1/2, p. 12-24.

DESCRIPTORS: *Hydrates, *Silicates, *Calcium
compounds.

(Chemistry--Inorganic, TT, v. 11, no. 5)

TT-63-22916

- I. Funk, H.
- II. Schreppel, B.
- III. Thilo, E.
- IV. CLAIRA-T-18
- V. Chalk Lime and Allied
Industries Research
Association (Gt. Brit.)

Office of Technical Services

Ehrlich, P. and Dietz, G.
THE DISSOLVING POWER OF TITANIUM TETRA-
CHLORIDE FOR SOLID CHLORIDES. [Jan 64] 11p
Order from ATS \$14.65 ATS-89Q73G

Trans. of Z[schrift für] Anorg[anische und]
Allgem[eine] Chem[ie] (East Germany) 1960, v. 305,
p. 158-168.

DESCRIPTORS: *Chlorides, Solids, *Titanium
compounds, Solvent action, Solvents.

(Chemistry--Inorganic, TT, v. 11, no. 10)

TT-64-12418

- I. Ehrlich, P.
- II. Dietz, G.
- III. ATS-89Q73G
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

The Enthalpy of Formation of Tantalum Chloride
and the Thermochemistry of the Chlorides TaCl₅,
TaCl₄, and TaCl₃, by Harold Schafer.

GERMAN, per, Z fuer Anorgan und Allgemeine
Chem, Vol CCCV, 1960, pp 178-189.

Dept of Interior
TW 857 No ~~501~~ 501

191,522

Sci - Chem

On the Modifications of Boron. Experiments on the
Incorporation of Beryllium in the Boron Lattice, by
H. J. Becher, A. Schafer, 5 pp.

GERMAN, per, Z fuer Anorganische und Allgemeine
Chemie, Vol CCCVI, 1960, pp 260-265. 9095532

AEC UCRL Tr-740(L)

Sci - Chem
Mar 62

186,482

AEC (UCRL-Trans-10642) BERYLLIUM BORIDE BeB_{12}
WITH THE BETA-BORON STRUCTURE. Becher, H. J. Trans-
lated for Univ. of California, Lawrence Livermore Lab., Liver-
more, from Z. Anorg. Allg. Chem.; 306: No. 5-6, 266-72 (1960).
201p. 24Dep. NTIS.

25chemistry (inorganic); translations 2707B

28MN-4 29P NSA

The Preparation of Di-methylcyclopentadienyl-
Magnesium, di-methylcyclopentadienyl-zinc,
and tri-methylcyclopentadienyl-lanthanum, by
W. Strohmeier, H. Landsfeld,

GERMAN, per, Zeit Anorganische und Allgemeine
Chemie, Vol CCCVII, 1961, pp 120-122.

*SLA/A-138

Sci - Chem
Jul 63

The Zirconium-Rich Phases in the Mg-Zr System, by
Von Hans-Joachim Taschow, Franz Sauerwald, 16 pp.

GERMAN, per, Z fuer Anorganische und Allgemeine
Chemie, Vol CCVII, 1961, pp 123-136. 9089565

AEC Tr-5127

Sci - Chem
Aug 62

207,508

Contribution to the Knowledge of Silicic Acid
Esters Stable in Water, by A. Weiss, et al.
GERMAN, per, Z fuer Anorganische und Allgemeine
Chemie, Vol CCCII, 1961, pp 151-179.
CSIRO/No 6607

Sci - Chem
Jul 64

262,561

Kaolinite and Montmorillonite With Exchangeable
Hydrogen Ions, by K. Fruhauf, U. Hofmann,
18 pp.

GERMAN, per, Z fuer Anorganische und
Allgemeine Chemie, Vol CCCVII, No 3/4,
Jan 1961, pp 187-201.

Dept of Commerce
Natl Bu Standards

DBI:

Sci - Chem
Nov 61

173, 287

Manganese Oxides, VII: Preparation and Properties
of Manganese Dioxides, by O. Glaser, G. Gattow.

27 pp.

GERMAN, per, Zeit fur Anorg und Allg Chemie,

Vol 309, 1961, pp 1-19.

Dept of Navy NIC Tran 2936

Sci-Chem

Dec 69

397,394

Manganese Oxides, VII. The Preparation and the
Properties of Manganese dioxides. (The -Group
of Manganese Dioxides)., by O. Glemser, G. Gattow,
J. Meisiek, 12 pp.

BERMAN, per, J. Amer Anorg und Allgem Chem,
Vol CCCIX, Nos 1/2, 1961, pp 20-30.

CSIR Ref No 223

215,438

Sci - Chem
Ref 32

Kinetics of the Thermal Decomposition of Magnesium and
Calcium Carbonate, by L. Bachmann, E. Cremer.
GERMAN, per, Z ~~XXXX~~ fuer Anorganische und Allgemeine
Chemie, Vol CCCIX, No 1, 2, 1961, pp 65-70.

CRL/T. 1340

Sci - Chem

Feb 64

250,113

The Behavior of Alkali Metals to Semi-Metals. V. The
Antimony System With Potassium, Rubidium and Caesium,
by Friedrich Wilhelm Dorn, Wilhelm Klemm, 17 pp.

GERMAN, per, Z Anorg und Allgem Chem, Vol CCCCIX,
1961, pp 189-203.

AEC UCRL Tr-764(L)

Sci - Chem
May 62

196, 806

NY-LO/C

PURIFICATION OF SILICON THROUGH TRANSPORT
REACTIONS, BY R. LESSER, E. ERBEN, 9 PP.

GERMAN, PER, ZEITSCHRIFT FÜR ANORGANISCHE
UND ALLGEMEINE CHEMIE, VOL CCCIX, NO 5/6,
PP 297-303.

JPRS 10148

SCI - CHEM

173,121

NOV 61

(NY-10/c)

The Reaction of Disulfuryl Fluoride,
 $S_2O_5F_2$, With Ammonia and Diethylamine [1],
by Rolf Appel, Gerhard Eisenhauser, 4 pp.

GERMAN, per, Zeitschrift für Anorganische
Chemie, Vol CCCX, No 1/2, pp 90-93.

JPRS 10179

Sci - Chem

173,480

Oct 61

Fluorine-Containing Complexes: I. The Paper
Chromatography and Electrophoresis of Fluorozirconates,
by L. Kolditz, A. Feltz, 7 pp.

GERMAN, per, Zeitschrift fuer Anorganische und
Allgemeine Chemie, Vol CCCX, 1961, pp 195-224.
9209168

AERE-Harwell-Tr-900

Sci - Chem

235,700

Jul 63

Fluorine-Containing Complexes. II. The Hydrolysis
of Fluorozirconates and Condensation \pm of the
Hydrolysis Products, by L. Kolditz, A. Feltz, 18 pp.

OSMAN, per, Z Anorg und Allgem Chem, Vol CCCX,
1961, pp. 204-216. 9093446

Sci - Chem
Jul 62

AEC Tr-5086
AERi - Harwell-900
(9209168)
204, 700

Fluorine-Containing Complexes. III. Zirconium
Tetrafluoride Hydrate, Zirconium Hydroxyfluoride
and Their Condensation Products, by L. Kolditz, A.
Feltz, 11 pp.

GERMAN, per, Z Anorg und Allgem Chem, Vol CCCX,
1961, pp 217-224. 9093445

Sci - Chem
Jul 62

AEC Tr-5087
FENE - Harwell-900
(1209169)
207,699

(NY-10)

Contributions to the Complex Chemistry of
the Phosphines and Phosphine Oxides,
IX. Heavy Metal Complexes of Tetracyclo-
hexyl Diphosphine, by K. Isaleib,
G. ~~SEIDIG~~ Schwager, 29 pp.

GERMAN, per, Z fuer Anorganische und
Allgemeine Chemie, Vol CCCXI, No 1/2,
Aug 1951, pp 83-91.

JPRS 12025

181. 238

Sci - Chem

(NY-10)

A Simple Method of Preparing Anhydrous
Hydrazine, II, by H. Bock, G. Rudolph,
3 pp.

GERMAN, per, Z fuer Anorganische und
Allgemeine Chemie, Vol CCCXI, No 1/2,
Aug 1961, pp 117-120.

JFRS 12024

Sci - Chem

181.237

Jan 62

Investigations of Nitrogen-Chlorine Compounds.
Nitrogen-Monohydrate as an Intermediate Product
of the Decomposition of Chloramine, by J. Jander,
J. Fischer.

CHEMAN, per, Z Anorganische Allgem Chemie,
Vol CCCCXIII, 1961, pp 37-47.

TIL T 5358

Fcl - Chem

234,317

Jun 63

Weiss, Armin, Reif, Günther, and Weiss, Alarich.
WATER-STABLE SILICIC ACID ESTERS (Zur
Kenntnis Wasserbeständiger Kieselsäureester).
[56p] (foreign text included) 18reis
Order from SLA \$5.60

TT-64-16425

TT-64-16425
I. Weiss, A.
II. Reif, G.

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1961, v. 311, [no. 3/4]
p. 151-179.

(Chemistry--Organic, TT. v. 12, no. 4)

Office of Technical Services

Fluoractive Substances, by Hans Bode,
Ernst Klesper, 15 pp.

ENGERMAN, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol CCCXIII, 1961,
pp 161-169. 9069028

AEC-tr-5299

Sci - Chem
Dec 62

217, +75

H. A. Lehmann H. HesseIbarti

Lithium aluminates, 2: Li_5AlO_4 . 6 pp.
GERMAN, per, Z. Anorg. Allgem. chem, Vol 315, 1962,
pp 14-16
NASA TT F 14,191

July 72

Metal/Nitric-Oxide Complexes. Part 13.
Complex Chemical Behavior of Nitrosylrhodium
Halides, by W. Hieber.
GERMAN, per, Zeitschrift fuer Anorganische und
Allgemeine Chemie, Vol 316, 1962, pp 321-326.
NTC-70-13215-07B

Feb 72

**The Rapid Electrolytic Deposition of Metals in
Small Concentrations.**

GHEEMAN, per, Zeits. fur Anorganische u.

Allgemeine Chemie, No 316, 1962.

O. A. Trans. 1053

sci / *John*
feb 71

63-18728

Hauflfe, Karl.
CONTRIBUTION ON THE PHOTOELECTRIC CONDUCTIVITY OF ZINC OXIDE. [1963] 10p *brefts*
Order from SLA \$1.10 63-18728

I. Hauflfe, K.

Trans. of [*Zeitschrift zur Anorganische und Allgemeine Chemie*] (Basel Germany) 1962, v. 316, no. 3/4, p. 190-196.

DESCRIPTORS: *Zinc compounds, *Oxides, *Photoconductivity, Crystal lattice defects, Crystal lattices, Lithium compounds.

The photoelectric conductivity of ZnO is caused by a photochemical reaction between the electron hole pairs and the surface oxygen in which reaction the free electrons are probably responsible as the essential charge carriers. The crystal defects caused by grinding ZnO have a considerable influence on the decrease of (Physics--Solid State, TT, v. 10, no. 10) (over)

Office of Technical Services

High Purification of Sulfur the "Black Precipitate",
by Von O. Skjerven; 2 1/2 pp

GERMAN, per, Z Anorg Allegem Chemie, Vol CCCXIV,
1962, pp 206-209. 4299060

*AEC Tr-5008

Sci - Chem
Jun 62

Correlation between OH-Valence Frequencies and OH
and OH...O-Distances in Solid Hydroxides, by E.
Schwarzmann.

GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol 317, No 4, 1962, pp 3/4
CSIRO/No 7075

Sci -
Aug 67

336,744

Introduction of Al^{3+} and Si^{4+} into Mica-Like Layer
Silicates to Replace Exchangeable Cations, by A.

Weiss, G. Thamerus.

GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol. 317, 1962, pp 142-146.

CSIRO/No. 3926.

Sci -

July 1967

334-693

Metal-Nitrogen Oxide Complexes. Part XIV.
Manganese Nitrosyls, by W. Hieber.
GERMAN, per, Zeitschrift fuer Anorganische
und Allgemeine Chemie, Vol 318, 1962, pp 136-
154.
NTC-71-10820-07B

Nov 71

Investigations of tin Compounds. 4. Vibrational Spectra and Structure of Some Inorganic Tin-fluorine Compounds, by H. Kriegsmann, G.

Kessler.

GERMAN, per, Z. anorg. allg. Chem, Vol 318, 1962, pp 277-286.

CRL/T.2337

Sci -

Jul 67

333,693

Preparation and Structure of the Beryllium Boride
Be₄B, by H. J. Becher, A. Schafer, 8 pp.
GERMAN, per, Z Anorg Allgem Chem, Vol 318, No 5/6,
1962, pp 304-312..
AEC/UCRL-Tr-10435-70

Sci/Chem
Apr 70

405,658

The Reaction of Thiosulfate With Sulfurous Acid,
by E. Blasius, R. Kramer.

GERMANY, per, Zeit fur Anorganische und Allgemeine
Chemie, Vol CCCIX, No 1/2, 1962, pp 1-8.

TC-204

Apr 67

322,260

Preparations of Alloys of Platinum with Base Metals,
by W. Bronger, W. Klemm, 23 pp.
GERMAN, per, Z. Anorg Allgem Chem, Vol 319, 1962,
pp 58-81.
AEC/ORNL-Tr-2381-70

Sci/Chem
Nov 70

REC. (RFP-Trans-116) THERMODYNAMIC MEASURE-
MENTS OF THE HYDROGEN HALIDES OF THE ALKALINE EARTH
METALS. Ehrlich, P.; Pelk, K.; Koch, E. Translated from
Z. Anorg. Allg. Chem.; 324: No. 3-4, 113-28(1963). 20p. Dep.
NTIS.

chemistry (physical); translations 07D

MN-4 P NSA

The Oxidative Hydrolysis of Phosphorus Sulfides
and Diphosphorus Tetraiodide, by H. Falius.
GERMAN, per, Zeit Anorg und Allgemeine Chemie,
Vol CXCXVI, 1963, pp 78-88.
TC-151

Apr 67

322,261

Water Content of "Dried" Silicon Dioxide
Surfaces, by H. Boehm.
GERMAN, per, Zeitschrift fur Anorganische
und Allgemein Chemie, Vol. 320, No 1/4,
1963, pp 43-53.
CSIRO/No. 6906

Sci -
Aug 67

335,168

The Water Content of "Dried" Silicon Dioxide Surfaces,
by H. P. Boehm.

GERMAN, per, Zeitschrift fuer Anorganische und
Allgemeine Chemie, Vol 320, No 1/4, 1963, pp 43-53.

NTC-71-11262-07B

C.I.R.C. / no 6906

Nov 71

~~HYDRAZINE~~
Hydrazine-Kaolinite, by A. Weiss, et al.
GERMAN, per, Z fuer Anorganische und
Allgemeine Chemie, Vol CCCXX, No 1/4,
1963, pp 183-204.
CSIRO/No 6716

Sci - Chem
Jul 64

262,562

The Chemistry of the Platinum Metals. Part V. Equilibria
With Ru (solid), RuO₂ (solid), RuO₃ (gas), and RuO₄ (gas) by
H. Schafer, A. Tebben, et al. 17 pp.
GERMAN, per, Z fuer Anorganische und Allgemeine Chemie,
Vol CCCXI, No 1, 2, 1963, pp 41-53. 9219334

AE&RE-Harwell-Tr-968

Sci-Chem
Mar 64

251,259

On the Formation of the Tetragonal Boron Mod-
ifications by Substitution on the Beryllium
Atom in the B_2B_{12} Lattice, by H. J. Becher.

11 pp

GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, No 321, 1963, pp 217-223,
9700354

FTD-TI-65-798

Sci/Chemistry
May 66

301,091

Scholder, R. and Mansmann, M.
COMPOUNDS OF THE SO-CALLED -ALUMINA
TYPE. [1963] [17p] (figs omitted) 19refs
Order from SLA \$1.60 TT-64-14055

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1963, v. 321, p. 246-251.

(Chemistry--Inorganic, TT, v. 12, no. 2)

TT-64-14055

I. Scholder, R.
II. Mansmann, M.

Office of Technical Services

TT-63-20785

Allenstein, E. and Goubeau, J.
THE BASIC PROPERTIES OF CHLOROAMINES.

[1963] 8p 12 refs
Order from SLA \$1.10

TT-63-20785

Partial trans. (p. 145-150) of *Zeitschrift für Anorganische und Allgemeine Chemie (East Germany)* 1963, v. 322, no. 3/4, p. 145-150. (Abstract available)

DESCRIPTORS: *Chloramines, Chemical properties, Boron compounds, Fluorides, Sulfuric acid, Acid-base equilibrium, Dissociation, Explosions.

The basic properties of $N(CH_3)2Cl$, $N(CH_3)Cl_2$, NCl_3 , NH_2Cl , and $N(C_2H_5)Cl$ were investigated by forming compounds of them with boron trifluoride and sulfuric acid. In the series $N(CH_3)_3$ -- $N(CH_3)_2Cl$ -- $N(CH_3)Cl_2$ -- NCl_3 there was a strong decrease of basicity towards both acids, the basic nature becoming practically nil with NCl_3 . With NH_2Cl , catalytic (Chemistry--Inorganic, TT, v. 11, no. 3) (over)

I. Allenstein, E.
II. Goubeau, J.

Office of Technical Services

Emons, H. H., Grothe, W., Hellmold, P., and
Richter, D.
ON THE QUESTION OF THE EXISTENCE OF ALKA-
LINE-EARTH METAL SUBHALIDES. [23]p (1 table
omitted) 23refs
Order from SLA \$2.60 TT-64-16613

Trans. of Zeitschrift für Anorganische und
Allgemeine Chemie (East Germany) 1963, v. 323
[no. 3/4] p. 114-125.

(Chemistry--Inorganic, TT, v. 12, no. 4)

TT-64-16613

I. Emons, H. H.
II. Grothe, W.
III. Richter, D.
IV. Hellmold, P.

Office of Technical Services

New X-Ray Camera Based on Guinier's Principle, by
R. Schrader, G. Tetzner.
GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol. 323, 1963, pp 137-148.
CSIRO/No. 3799

Sci -
July 1967

334-689

Chemistry of Condensed Phosphates and Arsenates. XXXVII on Sodium Meta- and Polyarsenatophosphates and the Different Distribution of Arsenic in the Chains in Glass and Crystal, by Karl-Heinz Jost.

GERMAN, per, Z fuer Anorg u Allgem Chem.
Vol CCCXXV, 1963, pp 98-112. 9232289
AEC-ORNL-Tr-967

Sci - Chem
Mar 66

297,863

Disulfur Difluoride (Thio-Thionylfluoride),
by F. Seel, H. D. Golitz.
GERMAN, per, Zeit fur Anorg und Allgemeine
Chemie, Vol CCCXXVII, 1964, pp 32-50.
ATS 72R77G

Apr 67

322,263

New Determination of the Fine Organization
of Vitreous Selenium, Explosive Antimony,
and B - and Y - Arsenic, by H. Krebs, R.
Steffen.

GERMAN, per, Zeitschrift Fur Anorganische
und Allgemeine Chemie, Vol 327, No 3/4,
1964, pp 225-227.
CSIRO/No. 7243

Sci -
Jul 67

334,310

Pressure Synthesis of Niobium Nitrides and Constitution
of δ -NbN, by G. Brauer, H. Kirner, 15 pp.
GERMAN, per, Z fuer Anorganische und Allgemeine
Chemie, Vol CCCXVIII, 1964, pp 34-43. 9226273
AEC-LA-Tr-64-20

Sci-Chem
Jan 65

272,481

A Blue Zirconium Nitride, by R. Juza, A. H Gabel,
et al, 18 pp.
GERMAN, per, Z fuer Anorganische und Allgemeine
Chemie, Vol. CCCXXIX, 1964, pp 136-145. 9226135
AEC-LA-Tr-64-23

Sci-Chem
Dec 64

270,148

Investigations to Poison Metal Catalysts. Part II.
Poisoning Nickel Catalysts With Oxygen, by H. Kinza.
GERMAN, per, Zeitschrift fuer Anorganische und
Allgemeine Chemie, Vol 329, 1964, pp 146-162.
NTC-71-10102-07D

FTD-TT-65-160 21 pp 9696612

Nov 71

New Determination of the Fine Organization (Nahordnung)
of Vitreous Selenium, Explosive Antimony, and B- and
-8 Arsenic, by H. Krebs.

GERMAN, per, Zeitschrift fuer Anorganische und Allgemeine
Chemie, vol. 327, 1964, pp. 225-227.

NTC 70-16998-07B

**MX_2 Compounds of the Alkaline Earth
and Rare Earth Metals with Gallium,
Indium and Thallium, by A. Iandelli.
GERMAN, per, Zeit. für Anorganische
und Allgemeine Chemie, Vol 330,
pp 221-232, 1964 9229930
AECORRML-Tr-732**

Sci-M&M
Oct 65

290,594

Silicic Acids, by H.G. Franck
GERMAN, per, Z. Anorg. Allgem. Chem.
Vol. 331, No. 5/6, 1964, pp 249-255
EZ

Sci -
Aug 67

335-593

The Preparation of Metal Nitrides From Ammonium
Fluorometallates and Ammonia, by H. Funk,
H. Bohland.
GERMAN, per, Z. Anorg. Allg. Chem., Vol 334, 1964,
pp 155-162. P911128266
AEC UCRL-tr-10062

Sci/Chemistry
Dec 66

314,596

Ester Groups as Ligands in Heavy-Metal
Chelates. Part II. Complex Formation of
Aminopolycarboxylic Acid Esters With
Transition-Metal Ions, by Lothar Beyer.
GERMAN, per, Zeit fur Anorganische und All-
gemeine Chemie, Vol CCCIX, No 1-2, 1965,
pp 8-19.
*FTD-HT-23-449-67

Sci - Materials
Apr 67

Infrared and Raman Spectroscopic Studies on
Field Substituted Phenyl-Dimethyl-Hydrogen
Silanes, by P. Reich & H. Kriegsmann, 16 pp.
GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol 334, Nos 5-6, 1965,
pp 272-282. P100073368-V
FTD-HT-23-672-67

Sci/Mat
May 68

356,765

Radiochemical Measurements of the Solubility
of Alkaline Earth Sulfates in Water and in
Sodium Sulfate Solutions, by K. H. Lieser. 14 pp.
GERMAN, per, Z. Anorg. Allgem. Chem., Vol 335,
1965, pp 225-236.
AEC ORNL-tr-649

Sci/Chemistry
Jun 66

301,106

Structural Analysis of La_2O_3 , by
H. Muller-Buschbaum,
H. G. von Schnering.
GERMAN, per, Z. Anorg Allge Chem
Vol CCCXI, 1965, pp 232-245.
NASA TT F-10,437

GOVERNMENT USE ONLY
Sci-Chem
Jan 67

317,859

A Method for the Indexing of Powder Photographs,
by G. Gattow, H. Piötter.

GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol 336, Nos 1&2, 1965,

pp 1-10. 9232881

AEC NP-tr-1377

Sci/Chemistry
Jun 66

301,126

A New Topochemical Chromium (III) Hydroxide, by
A. Krause, S. Zielinski.
CHEMAB, par, Zeit für Anorg und Allge Chemie,
Vol 338, No 3-4, 1965, pp 222-224.
NYC-69-12971-07B

Sci-Chem
Sept 69

391,145

Complex Formation of Aminopoly-
carboxylic Acid Esters With
Transition Metal Ions, by I. Beyer,
G. Kuhn, 13 pp.
GERMAN, per, Zeitschrift Fur
Anorganische Und Allgemeine Chemie,
Vol 339, No 1/2, 1965, pp 8-19
P100205468-V
FTD-INT-23-149-67

Sci/Chemistry
Sep 68

364,235

Investigations of Alkaline Earth Metal-Alkaline
Earth Metal Halide Systems. The Electrical Con-
ductivity of the Solutions of Calcium in Molten
Calcium Chloride, by H.H. Emons, D. Richter.
GERMAN, per, Z Anorg. Allg. Chem., Vol 339, 1965,
pp 91-98. 9232783
AEC IS-tr-50

Sci/Earth Sci-Chem
Jun 66

302,489

Air Force 67-1/b

R-7352-D
7 Sept. 1966

Stabilitätsuntersuchungen an Chelaten sterisch
behinderter -Diketone

By: E. Uhlemann und E. Frank

From: Zeitschrift für anorganische und allgemeine Chemie,
Band 340, 1965 pp 319-324 (6 pp)

German - est for wis:

Translate and type 1 original and 1 carbon copy.
Document may be cut. Typing instructions attached.

Spectroscopic Investigations on the Properties
of the SiH Bond in Trisubstituted Silanes,
by G. Kessler, H. Kriegsmann, 9 pp.

GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol 342, Nos 1-2, 1966.

PP 53-74.

AIR/FTD/HT-23-677-67

Sci-Phys
Jan 69

370,860

On the Properties of Chloromethoxymonohydrogen
and Chloroethoxymonohydrogen Silanes, by
G. Kessler, H. Kriegsmann, 10 pp.
GERMAN, per, Zeitschrift für Anorganische und
Allgemeine Chemie, Vol 342, Nos 1-2, 1966,
pp 53-74.
AIR/FTD/HT-23-677-67

Sci-Phys

The Separation of Cerium From Lanthanum and
Didymium and Its Quantitative Determination in
Mixtures of the Latter, by P. Mengel, 16 pp.

GERMAN, per, Z Anorgan Chem, Vol XIX, 1899,
pp 67-77.

AEC Tr-4370

Sci - Chem
Apr 61

149,556

The Alloys of Thallium With Copper and
Aluminium, by F. Doerrinckel, 6 pp.

GERMAN, per, Z Anorg Chem, Vol XLVIII, 1906,
pp 185-190.

SLA 57-1565

May 58

63,818

The System $\text{CaO-P}_2\text{O}_5\text{-H}_2\text{O}$ (Translation of Sections
Only Dealing With Quintuple), by H. Bassett, 10 pp.

GERMAN, per, Z. Anorg Chem, Vol LIX, ~~HEXCEXXIX~~
1908, pp 3-11.

NOT RELEASABLE TO FOREIGN NATIONALS
CIA/FID XX-188

Scientific - Chemistry
Aug 1956 CTS/dex

IAC INTERNAL USE ONLY XX-188

37,498

62-16482

Ruff, O[tto].
COMPOUNDS OF ARSENIC PENTAFLUORIDE AND
ANTIMONY PENTAFLUORIDE WITH NITROSYL
FLUORIDE. [1962] 12p. 6 refs.
Order from SLA \$1.60 62-16482

I. Ruff, O.

Trans. of Z[eitschrift für] Anorg[anische] Chem[ie]
(Germany) 1908, v. 58, p. 325-337.

DESCRIPTORS: *Arsenic compounds, *Antimony com-
pounds, *Fluorides, *Nitrogen compounds, Oxyfluo-
rides, Preparation, Chemical properties, Chemical
reactions, Chemical analysis.

(Chemistry--Inorganic, TT, v. 9, no. 1)

Office of Technical Services

The Hardness and Electrical Resistance of Solid
Metallic Solutions, by C. Benedick, 8 pp.

GERMAN, per, Z Anorg Chem, Vol LXI, pp 182,1909.

SIA 57-1457

May 58

63,811

On the Structure of Alloys and the
Reaction Rate of These Metals in the
Solid State, by G. Masing, 45pp.
GERMAN, per, Z. Anorg. Chem. 62, 1909,
pp. 265-309.
*NBS TT 70-57829

Sci/phys
Jun 70

On the Behavior of Lithium to Sodium,
Potassium, Tin, Cadmium and Magnesium, by
G. Masing, G. Tamman, 37 pp.

GERMAN, per, Z fuer Anorg Chem, Vol LXVII,
1910, pp 183-199.

ABC Tr-4198

Sci - Chem
10 Nov 60
List 45

131, 419

63-10484

I. Balarew, D.

Balarew, D.
THE MUTUAL TRANSITION OF THE ORTHO-,
PYRO-, AND METAPHOSPHORIC ACIDS INTO ONE
ANOTHER ON HEATING. [1962] 9p. 2 refs.
Order from SLA \$1.10 63-10484

Trans. of Zeitschr[ift] f[ür] Anorg[anische] Chemie
(Germany) 1910, v. 67, p. 234-241.

DESCRIPTORS: *Phosphoric acids, Transformations,
Heating, Vapor pressure.

It was found: (1) that in increasing the water-vapor
tension over heated orthophosphoric acid the tempera-
ture of formation of the pyro- acid rises faster than
that of the meta- acid. (2) On account of the volatility
of the meta- acid the investigation could be carried only
to a relatively low temperature so that the anticipated
meeting of the curves of temperature formation for
pyro- and meta- acid, that is, the direct transition of
ortho- into meta- acid, could not be reached. (Author)

(Chemistry--Inorganic, TT,
v. 10, no. 2)

Office of Technical Services

Contributions to the Theory of Thorium
Salt Manufacture I. The Sulfate Purifi-
cation Method, by I. Koppel, H. Koltkamp.
65 pp.

GERMAN, per, Z. fuer Anorg Chem.
Vol LXVII, 1910, pp 286-292. 9069433

AEC Tr-5352

Sci - Chem
Dec 62

217,361.

Heat of Hydration and Vapor Pressure of Thorium
Sulfate Hydrates, by I. Koppel, 12 pp.

GERMAN per, Z für Anorganische Chemie,
Vol LKVII, 1910, pp 293-301. 9200079

ABC-tr-5385

Sci - Chem

Dec 62

219.7-5

Theory on the Production of Thorium Salts, by I, Koppel,
H. Holtkamp.

GERMAN, per, Z fuer Anorganische Chemie, Vol LXVII,
1910, pp 266-301.

9069033
*AEC TR 5352

Sci - Chem
Aug 62

The 4:3 Basic Zirconium Sulphate and its Hydrates,
by O. Hauser.

GERMAN, per, Zeitschrift fur Anorganische Chemie,

Vol 67, 1910, 369-375.

(CSIRO/No. 7445)

Sci -

Aug 67

339,911

Concerning Metallic Titanium. Section III,
Production of Fused Titanium; Section IV, In-
vestigation of Fused Materials, by L. Weiss,
H. Kaiser, 14 pp.

GERMAN, per, Zeit fur Anorg Chem, Vol LXV,
No 4, 8 Feb 1910, pp 388-391; 391-398.

Dept of Commerce
Patent Office
Sci Lib (gift)

Sci - Min/met
Sep 59

95,728

Concerning Metallic Titanium. Section III,
Production of Fused Titanium; Section IV, In-
vestigation of Fused Materials, by L. Weiss,
H. Kaiser, 14 pp.

GERMAN, per, Zeit fur Anorg Chem, Vol LXV,
No 4, 8 Feb 1910, pp 388-391; 391-398.

Dept of Commerce
Patent Office
Sci Lib (gift)

Sci - Min/met
Sep 59

95,728

Alloys of Molybdenum with Nickel, Manganese,
Thallium and Alloys of Calcium with Magnesium,
Thallium, Lead, Copper and Silver, 7 pp.
by H. Baar.

GERMAN, per, Z. Anorg Chem, Vol LXX, No 4,
1911.

0
SLA Tr 57-2259

SLA
Sci
Jul 58

67,994

A New Quantitative Determination of Fluorine, by G. Starck, 5 pp.

GERMAN, per, Z. Anorg Chem, Vol LXX, 1911, pp 173-177.

S.L.A. Tr 2084

Sci - Chemistry
Jun 57 CTS

49,003

The Equilibrium $\text{CaSO}_4 + \text{NaCO}_3 \rightleftharpoons \text{CaCO}_3 + \text{Na}_2\text{SO}_4$,
by W. Herz, 3 pp.

GERMAN, per, Zeit. f. Anorganische Chemie,
Vol LXXI, pp 206-209.

25,148

CIA/FDO/X-1719

Scientific - Chemistry

Jul 55 CTS

Thorium
A Contribution to the Chemistry of
and Rare Earths, by F. Wirth.
GERMAN, per, Z Anorg Chem, Vol LXXVI, 1912, pp
174-200.

DSIR/31214/CT

59,983

Sci - Chemistry
Mar 58

Investigations in the Electric Pressure Oven. IV.
Alkali Peroxides Directly from Alkali Hydroxides
and Oxygen, by Franz Fischer, Hans Floetse, 11 pp.

GERMAN, per, Z Anorg Chem, Vol LXXV, 1912, pp 30-40.

S.L.A.

Scientific - Chemistry

24,780